

GOING CAMPING

Instead of packing tents, backpacks, cooking gear, the ol' fishing pole, and hiking into the wilderness this summer, many thousands of youngsters are camping out with the TIMEX Personal Computer and hiking into the enchanted wilderness known as "hi-tech" computerology.

To find out what's been cooking this past summer, we took a fast peek at a couple of local TIMEX Computer Camps.

SUMMER COMPUTING FESTIVAL

During July and August, Online Computer Education of Salem, Connecticut hosted a summer Computer Festival for youngsters 8-through-16. This five-day (Monday to Friday) computer camp ran from 9:30 a.m. to 2:30 p.m. in eight-locations across Connecticut.

Small class size (16-18 campers) and thor-



oughly knowledgeable instructors permit individual attention. Lectures and "handson" experience provide a well-rounded program. Campers are introduced to programming, games, graphics, machine functions, and prerecorded software. Director Robert M. Valuk explains, "Campers are encouraged to establish their own objectives and to utilize the computer to achieve these goals."

Tuition of \$195 includes T/S 1000 computer, course materials, FESTIVAL T-shirt, special awards, milk, juice and snacks (lunch is brought from home), and a \$10.00 gift certificate.

"By learning about the computer — its capabilities and potential uses, these kids are preparing themselves for the hi-tech job market of tomorrow," adds Mr. Valuk, "and in that respect are way ahead of the game."



ONLINE COMPUTER CAMP AT GLASTONBURY, CONNECTICUT

MEET THE COMPUTER

Post College in Waterbury, Connecticut, ran a summer camp program called Meet the Computer. In the morning, the campers work with the TIMEX Sinclair Personal Computer and after lunch, the youngsters are treated to sports, social activities, and local trips. Two week-long sessions were



held; the July gathering was for younger campers aged 10-to-13 and the August powwow was geared to the 14-16 age group.

Speaking about computer camps, Post's Educational Director Roger LaFrance tells us, "The computer camp is an ideal bridge between the technology around us and the



POST COLLEGE'S MEET THE COMPUTER

camper's desire to learn; unfortunately, computer curriculum is still not well defined in many schools."

Professionally-planned instruction and "hands-on" experimentation stimulates camper exploration of the TIMEX computer, its characteristics, language, and graphic capabilities. Limited enrollment and a four-to-one student-to-instructor ratio promotes one-to-one dialogue to inspire the camper to independently learn to utilize the computer to his or her own best advantage.

All activities, trips, lunch, snacks, and T-shirts are included in the \$175.00 day-camp tuition. Campers can purchase TIMEX computer equipment at a special, low, educational-program price.

Camping out with the TIMEX Personal Computer is a totally exhilarating summer vacation — one that's well received by campers and parents alike.

Joan Donald, Director of Summer Programs at Post College, describes camper enthusiasm in this manner, "Because the campers became so absorbed with their TIMEX Computer, it was difficult, at times, to pry them loose — even for lunch and their afternoon of recreational activity."

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DON'T PLAY DOCTOR WITH YOUR TIMEX PERSONAL COMPUTER

All TIMEX Sinclair computer products have been carefully engineered and tested to provide dependable and trouble-free service. However, since no complex system can ever be made 100% "fail-safe", a malfunction may unexpectedly crop up on rare occasions.

Please do remember that your computer tiny as it is - is actually a complex, sophisticated, and sensitive electronic instrument. Thus, any repairs should only be made by a trained and qualified technician.

Unauthorized attempts to disassemble and fix your computer could result in the following consequences: First, tampering with the computer will void the warranty; you will be billed for servicing that otherwise would have been performed free-of-charge. Secondly, what originally may have been a

small, fast job may have been transformed into a time-consuming major overhaul.

THE RIGHT RX

Your TIMEX Sinclair 1000™ Personal Computer is a sturdy, well-constructed instrument. Nevertheless, observing a few common sense precautions will help to extend the life of the unit:

- Use a damp, lint-free cloth to periodically clean your computer of dust, dirt, and arime
- Install your computer in a reasonably secure location - one that is not prone to injury (i.e. falling off a table)
- Periodically check for loose electrical connections and frayed wires
- Don't overload house electrical circuits by connecting too many power plugs to

the same wall socket

 Although the membrane keyboard is reasonably resistant to damage, avoid spilling liquids and other debris on its surface and avoid the use of sharp obiects to press the keys — this will help to promote long and reliable operation

WHEN REPAIRS ARE NECESSARY

TIMEX maintains a fully-equipped, fullystaffed internal repair facility at Little Rock, Arkansas, Our trained technicians stand ready to make all necessary repairs.

Experience has demonstrated that a large percentage of those computers — that are returned for service — actually <u>do not</u> require repairs. So, before returning your computer, refer to the following troubleshooting table to determine if repairs are really needed.

TROUBLESHOOTING YOUR COMPUTER

SYMPTOM

"SNOW" OR "FUZZ" ON TV SCREEN

PROBABLE CAUSE

Incorrect Computer Installation

Loose Electrical Connections

Maladjusted Fine Tuning Control

Switch Box Set to Wrong

Position

Channel Selectors Set to

Wrong Position

Loose RAM Module (if used)

Loose Electrical Connections

Loose Power Cord Plug

REMEDY

Refer to the installation diagram in your T/S User Manual and install the computer correctly.

Check all electrical connections and confirm that they are

Adjust fine tuning control on the TV until the interference disappears.

Set two-position switch on the switch box to position COMPUTER.

Confirm that channel selector switch on TV and on the underside of the computer are both set to the same channel.

Disconnect the 9V DC power cord to the computer. Detach the RAM Module from circuit card at rear of computer. Carefully but securely reinstall the RAM Module. Restore power to the computer by reconnecting the 9V DC adaptor.

Check all electrical connections between the TV and the computer and confirm that they are tight.

Disconnect 9V DC power connector at the computer. Then reattach the connector. It may be necessary to repeat this step several times; you can also jiggle the connector until the K cursor is produced.

Adjust the TV horizontal control until the K cursor appears at the bottom of the screen.

Refer to previously described remedy.

revised. Refer to the T/S User Manual for assistance.

K Cursor Off-Screen

Program statement is written incorrectly and will need to be

PROGRAM WON'T RUN -S CURSOR (MARKER) IS DISPLAYED

PROGRAM WON'T RUN -**ERROR CODE IS DISPLAYED AT BOTTOM** OF SCREEN

CAN'T GET K CURSOR ON

TV SCREEN

Loose Ram Module (if used) Incorrect Syntax

Incorrect Program Logic

Program logic is faulty and the program stops. Error code (refer to report code definitions in the T/S User Manual) identifies reason why the program stopped and line at which the program stopped.

Debug the program; refer to the T/S User Manual for assistance.

TROUBLE SHOOTING YOUR COMPUTER (con't)

SYMPTOM

PROGRAM RUNS, BUT WITHOUT DATA YOU'VE ALREADY ENTERED

PROGRAM WON'T LOAD

PROBABLE CAUSE

Using RUN Command to Initiate Program

Loose Electrical Connections

Improper Recorder to Computer Interconnections

Volume Level Too High or Too Low

Heads of Tape Recorder are Misaligned Improper Naming Conventions When Program has been Saved Computer Cannot Read Program Name

Loose Electrical Connections

Computer Interconnections

Improper Recorder to

PROGRAM WON'T SAVE

REMEDY

Use of RUN command deletes all user-entered data stored in memory. Instead of the RUN command use GOTO command to initiate the program — refer to the instructions that accompany your TIMEX software cassette.

Check all electrical connections between the computer, the TV and the tape recorder; confirm that they are tight.

Tape recorder and the computer are not connected ear-to-ear. or different color connectors are used.

Check the Transmitting Cable and confirm that the same color connectors are secured to the EAR jacks on both the tape recorder and the computer.

The EAR and the MIC jacks should never be connected simultaneously.

Correct tape recorder volume is important. Experiment with the volume level until the program does load (loading will usually occur when volume level is set within a range of 1/2-to 3/4-of maximum volume).

A simple and inexpensive adjustment can be performed at your local electronics store.

The correct method of saving a program is to use the SAVE command and the new program name in quotes (i.e. SAVE "NEW PROGRAM NAME").

Load program with the following alternate loading command: LOAD "

Refer to remedy under "Program Won't Load."

Tape recorder and the computer are not connected MIC-TO-MIC, or different color connectors are used.

Check the transmitting cable and confirm that the same color connectors are secured to the MIC jacks in both the tape recorder and the computer.

The MIC and the EAR jacks should never be connected simultaneously.

Poor Quality Tape Cassette Use only high-quality tape cassettes.

TO RETURN YOUR COMPUTER

If, after reviewing the troubleshooting data and attempting to correct the difficulty (do not attempt to disassemble your computer use only the troubleshooting techniques listed in the table) the symptoms are still present, call our Hot Line 1-800-24-TIMEX to speak with one of our representatives.

In the event that you are instructed to return your computer for service, ship your computer to:

> **TIMEX Product Service Center Building 19** Adams Field Little Rock, AR 72203

Please do be sure to enclose a letter explaining the difficulty you've encountered and your name and address (please print as well).

Finally, for your own protection, we recommend that your computer be insured against loss or damage during transit.

RAMBLINGS BOOK REVIEW

Combining a building block approach which proceeds from the rather simple to the rather complex with practical tools such as programming instructions, "hands-on" practice, and self-teaching exercises, the

book "Basic Programming for the Timex/ Sinclair Computers" provides a broad introduction to the Timex/Sinclair BASIC programming language.

Using the book as a guide and the computer as a "teaching machine," the reader learns how to program by actually proceeding to write programs.

Sixty-four chapters cover the scope of programming convections elucidating diverse subject matter such as keyboard familiarization, moving computer graphics, various math concepts, loops, branches, and string-slicing techniques.

Written by Joseph J. Charles and published by Hayden Books, "Basic Programming for the Timex/Sinclair Computer" will soon be available at your local book or computer store.

RAMBLIN' AROUND

Regardless of whether you're a beginner or an expert, one of the best ways to fully utilize your TIMEX Personal Computer is to share your enthusiasm and ideas with other members of your local T/S User's Group.

T/S Users' Groups — like the ones listed below — would like to hear from new members like you.

CALIFORNIA

Valley Users' Group 1220 Hillcrest Avenue Livermore, CA 94550 Contact: Don Shupp

Sacramento Timex/Sinclair Users' Group 3655 Sunset Blvd. No. 42 Rockline, CA 95677 Contact: Jim Hirleman Comput/s Club

East San Diego Continuing Adult Education School 5350 University Avenue San Diego, CA Contact: James Ardison

TSUNI 3325 Pierce Street San Francisco, CA 94123 Contact: Walt Gaby

Woodland Timex Sinclair Users' Group 312 Beamer Street Woodland, CA 95695 Contact: Robert L. Doud

COLORADO

Mile High Chapter T/S Users' Group 12026 W. Virginia Place Lakewood, OH 80228 Contact: Peter J. Cillinicos

CONNECTICUT

The New Haven Sinclair Study Group (for children) 16 Lewis Street New Haven, CT 06513 Contact: Chris Baldwin

MICHIGAN

Prices Users' Group of Michigan 324 E. Tienken Road Rochester, MI 48064 Contact: Ken Price

MISSOURI

Kansas City, Missouri Users' Group 4701 Northwest Linden Road Kansas City, MO 64151 Contact: Carl E. Mutch

OHIO

Sinclair/Timex Users' Group of Greater Cleveland 19502 Thornridge Cleveland, OH 44144 Contact: Chris Raynak

RHODE ISLAND

Ocean State T/S Users' Group 15 Kilburn Ct. Newport, RI 02840 Contact: Bob Dyl, Sr.

TEXAS

Timex-Sinclair Educators Users' Group Texas Wesleyan College School of Education Fort Worth, TX 76105 Contact: M. Mark Wasicsko

VIRGINIA

Hampton Roads Timex/Sinclair Users' Group 146 Hawthorne Drive Newport News, VA 23602

Contact: Jim Langston

Centennial Virginia Timex/Sinclair Users' Group Route 1, Box 192 Troy, VA 22974

The Centennial Virginia Users' Group will be holding classes on the operation and programming of the TIMEX Personal Computer. Please contact Herb Miller for time, place, and date.

To learn the name and location of your local T/S Users' Group, please call our toll-free number 1-800-24-TIMEX.



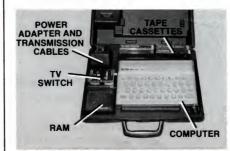
WE'VE BEEN TALKING ...

... With telecommunication services* like COMPUSERVE™, DOW JONES News/ retrieval, MCI Mail™, and THE SOURCE™ to get you a money-saving trial offer — worth more than \$160.00. And, it's FREE with your purchase of the T/S 2068 Color Computer (COMPUSERVE and MCI) and the T/S 2050 Telecommunications Modem (THE SOURCE); look in the package for the appropriate information.

*These services are provided by the Companies named and not by TIMEX Computer Corp.

WE GOT CARRIED AWAY...

... With this special offer for the TIMEX Personal Computer carrying case. It's big enough to accommodate the T/S 1000 or T/S 1500 and its accessories, but small enough to accompany you wherever you go. This attractively designed, lightweight, and durable carrying case is just not available at any retail store; it's a TIMEX Computer Club members only special, at a special, low price. Only 2,000 available, so first-come, first-served.



YOU DON'T BUILD A CADILLAC — WITH CHEVY PARTS ...

... Just a simple way of reminding you to always insist upon genuine TIMEX replacement parts for your TIMEX Personal Computer.

To order, simply complete the replacement parts order form enclosed with this newsletter and mail together with your check, money order, or credit card information — including applicable sales tax, if any. Please do be sure to *print* your name and address.

WE'VE MADE ARRANGEMENTS ...

... With the publishers of SYNC and SYNTAX magazines to offer exciting and economical subscription values to members of the TIMEX Computer Club. Take your pick from among three great magazines and mail the coupon(s) directly to the publisher.

WE'VE GOT SOFTHEARTED SOFTWARE

... For the T/S 2068 Personal Computer. More than 25 "user-friendly" cassettes or instant load cartridges are available to help you at home, in business, for school, or just for R and R (rest and recreation). So, select your favorites on the RAMBLINGS order form.



First and foremost, RAMBLINGS, the TIMEX Computer Club Newsletter is a forum for you, the T/S user. Through this vehicle, T/S users — throughout the country — can exchange valuable and useful techniques, ideas, programs, and discuss other topics of mutual interest.

We gratefully solicit *your* articles, programs, suggestions, critiques, and brainstorms. Please mail your contributions to the RAMBLINGS Editor. All contributions become the property of TIMEX and none can be returned. We reserve the right to edit contributed materials to conform to space or editorial policies.

And if we publish your material during January through March, we'll say thank you by sending you a gift of two TIMEX software cassettes of your choice.

T/S 2068

CASSETTE SOFTWARE

Ramblings Special Order Form

Cassette Number	Cassette Description	Price	Qty.	Cassette Number	Cassette Description	Price	Qty.
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□ 06-2002	YARD IMPROVEMENT PLANNER	19.95		□ 06-3028	CAPITALIZATION MASTER	15.95	
□ 06-2001	HOME IMPROVEMENT	19.95					
□ 06-2004	CHECKBOOK MANAGER	19.95		CATEGORY:	ENTERTAINMENT SOFTWARE		
□ 06-2009	PERSONAL PORTFOLIO MANAGER	19.95		□ 06-4000	PINBALL	19.95	
□ 06-2010	PERSONAL HOME FINANCE	19.95		□ 06-4001	ANDROIDS	19.95	
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□ 06-1003	QUADRA CHART	19.95		□ 06-4007	DRAGMASTER	15.95	
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□ 06-3019	WORD CROSS	15.95		□ 06-4021	BLIND ALLEY	19.95	
□ 06-3020	WORD PLAY I	15.95		□ 06-4023	CRAZYBUGS	19.95	

Component Order Form

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□ Modulator	9.00		☐ T/S 1000 Schematic	2.50	
☐ Keyboard	7.50			,	
☐ Case Assembly without keyboard	7.50		T/S 1016 RAM COMPONENTS		
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10 LET A=1.0013783
20 LET B=1.0013783
20 LET B=1.0015017
30 LET A\$=" THE SECRET "
40 LET B\$="IN SYNTAX IS "
100 FOR J=16509 TO 16555
105 LET Z=PEEK J
107 IF Z=126 THEN LET B\$=B\$+CHR
\$ PEEK (J+3)+CHR\$ PEEK (J+4)
199 NEXT J
200 PRINT AT 10,5;A\$;"INGREDIEN
[",;AT 11,8;B\$

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Going Camping continued

CAMP TALK

Here's what campers had to say about summer computer camp at Texas Wesleyan College at Fort Worth, Texas (special thanks to Mark Wasicsko for letting us reproduce this material):

WHAT PARENTS THINK ABOUT COMPUTERS

BY DARLA DELETE AGE 12

HI, MY NAME IS DARLA DELETE, AND I AM GOING TO TELL YOU WHAT PARENTS THINK ABOUT COMPUTERS. I WENT ON AN INSIDE INTERVIEW WITH MY MOM AND DAD, AND HERE IS WHAT THEY THINK.

THINK.

MY DAD THINKS COMPUTERS ARE VERY HELPFUL BUT, MOST PEOPLE DO NOT UNDERSTAND THEM. THEY GET MAD AT THEM AND BLAME THE COMPUTER, WHENIT IS REALLY THEIR FAULT.

MY MOM THINKS COMPUTERS ARE INTERESTING AND WOULD LIKE TO LEARN MORE ABOUT THEM.

WELL, THAT IS WHAT MY PARENTS THINK ABOUT COMPUTERS. I HAVE GOT TO GO NOW, BECAUSE I HAVE HOMEWORK TO FINISH ON MY TIMEX-SINCLAIR 1000 COMPUTER.

GOODBYE AND THANK YOU FOR READING MY ARTICLE.

--DARLA

--DARLA



COURTNEY IANNAZZO AGE 11

COMPUTERS, COMPUTERS

COMPUTERS, COMPUTERS, EVERYWHERE APPLE, I B M, AND TIMEX SINCLAIR:

LOOK AROUND AND YOU WILL SEE

A COMPUTER JUST RIGHT FOR YOU AND

HOSPITALS, HOMES, SCHOOLS AND SUCH

BANKS AND BUSINESSES COULD NOT DO AS MUCH

WITHOUT THE COMPUTERS OF TODAY WHICH YOU AND I USE JUST TO

PLAY.

BY ASHLEY BELL...AGE

WILLIE AND WILMA GOTO COMPUTER CAMP

BY DANIEL RODDY AGE 9



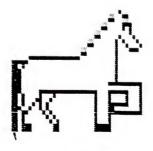
10 PRINT AT 2,2; "THESE TWO RAM S ";TAB 2; "WILMA AND WILLIE ";TA B 2; "ARE GOING TO";TAB 2; "TWC CO MPUTER CAMP."
20 PRINT AT 3,21; "DAN TAB 21; "WAGGONER";TAB 21; "WAGGONER"



; IAB 18; "
; TAB 30; "
; TAB

COMPUTER CAMP BY REBEKAH BROWNING

WHEN I WAS AT COMPUTER CAMP, THERE WAS GOOD FOOD IN THE CAFETERIA. IF YOU SPILL SOMETHING, THE TEACHER WILL HELP PICK IT



JENNIFER VAN HORN

AGE 11

ACTIVITIES I CAN DO WITH MY COMPLITER BY DANNA MILLER...AGE 13

THERE ARE MANY PROGRAMS THAT YOU CAN BUY TO USE WITH YOUR T/S 1000 HOME COMPUTER. THERE ARE GAMES AND INSTRUCTIONAL PROGRAMS. IN BUSINESS MANAGEMENT IT CAN BE USED FOR ACCOUNTING, BOOK KEEPING AND RECORD KEEPING. IN HOME MANAGEMENT IT CAN BE USED FOR THE ABOVE RECORD KEEPING AND FOR MORE PERSONAL USES SUCH AS KEEPING RECIPES, ADDRESSES, TELEPHONE NUMBERS AND CHRISTMAS CARD LIST. FOR SCHOOL YOU CAN PREPARE REPORTS, LEARN MATH AND WORK MATH PROBLEMS. YOU CAN ALSO LEARN TO PROGRAM THE T/S 1000 YOURSELF. THIS WILL HELP PREPARE YOU FOR MORE SOPHISTICATED COMPUTER STUDY. IN THE NEAR FUTURE YOU WILL BE ABLE TO BUY PROGRAMS SO THAT YOUR PERSONAL COMPUTER WILL BE ABLE MONITER YOUR BURGLAR ALARM, CONTROL APPLIANCES, WATER YOUR LAWN AND PREFORM MANY DUTIES.

CHARLIE BROWN BY CHRISTIN WASICSKO AGE 12



1 PRINT AT 1,5; "CHARLIE BROWN

2 PRINT AT 3,3; "BY CHRISTIN W ASIČSKO

510510 5FORI=Øto2*PISTEPPI/3Ø 1Ø PLOT 3Ø + 1Ø*COS I,22+1Ø*SIN

15 NEXT I

150 PRINT AT 21,8; " 📖 🗱 🛣 🛣



BITS/BYTES

Your TIMEX Personal Computer contains many tokens. And, while they may not pay for your subway ride, they'll surely pay off huge rewards in terms of memory conservation, simplicity of operation, and speed of data entry.

Each character (which you can see on your T/S 1000/1500 keyboard) is represented by a numeric code which ranges between ∅ and 255. The entire series of (255) codes is known as the Character Set — a type of alphabet for your T/S computer.

To display the entire character set (illustrated below) on your TV screen, run the following program (press the **BREAK** key to quit the program):

10 FOR A = Ø TO 255 20 PRINT CHR\$ A; 30 ■ NEXT A

Not only is each letter, number, special character, or graphic character represented by a numeric code, but so are the keywords (or tokens).

And, this very unique idea offers a very big advantage!

For example, your T/S keyboard has a sixletter (or character — a character is also roughly synonymous with a byte) keyword labeled **RETURN** (**Y** key). If typed manually, this word would consume six-bytes of memory (one for each letter) and you would be required to type all six-letters of this word to incorporate this command within a program.

However, since **RETURN** is a token, only one byte is consumed in memory; press the **Y** key (when the **K** cursor is displayed) and presto, the keyword **RETURN** is displayed on your TV screen.

That's exactly the reason why the cursor skips over the entire keyword when you backspace — or why the entire keyword is deleted when the delete function is employed.

Obviously, it's much faster and easier to press a single key instead of six of them — and that's the main idea behind the token!

TOKEN DECODING

Now that you've learned about a token and how it works, let's go one step further: With the use of the appropriate T/S command, you can specify a numeric code and the computer will display the appropriate token; or conversely, you can specify a token, and the computer will display its numeric code. Let's see how this works!

A **PRINT CHR\$** command (**CHR\$** is produced by pressing the **U** key when the **F** cursor is displayed) which specifies a particular numeric code, yields the appropriate letter, number, special character graphic character or token:

PRINT CHR\$ 3 Yields: ₹
PRINT CHR\$ 14 Yields: :
PRINT CHR\$ 200 Yields: COS

In a similar manner the **PRINT CODE** command (**CODE** is produced by pressing the I key when the F cursor is displayed) displays the numeric code when the token has been specified:

PRINT CODE "\$" Yields: 13
PRINT CODE "B" Yields: 39
PRINT CODE " OR " Yields: 217
PRINT CODE " GOTO " Yields: 236

Note that the letter, number, special character, graphic character, or token must be entered as a string (i.e.; within quotes) in order to utilize the **CODE** command.

Therefore, you may correctly assume that any string can be correspondingly decoded. However, since, the **CODE** command examines *only* the first element of a string, the computer will display the same answer (i.e.; 44) for all of the following strings: "GAMES", "GEORGE", "GOTO".

By the way, have you tried to obtain the **CODE** of the **GOTO** command from your computer yet? I'll bet you obtained the code of 44 instead of 236! Do you know why?

Well, there is a perfectly good and legitimate reason for this:

Because it is a keyword or token, the **GOTO** command can only be entered when the **K** cursor is displayed; it won't work if you type **GOTO** manually.

Now, since you entered **PRINT CODE** as the first portion of the command, the **L** cursor has been generated; this causes the computer to reject the entry of the **GOTO** command as a token.

So, to get around this, you probably typed **GOTO** manually — which as we said, is a no... no.

Furthermore, by manually typing **GOTO** as a string, the computer examines only the first letter (G) of the string and displays code 44 which is correct for the G, but wrong for the **GOTO**.

Regardless of what happened, we still want to obtain the code of the token, and to do so, we must "trick" the computer into accepting the command. So, here's what we must do:

- 1. With the **K** cursor displayed on the screen, enter the **GOTO** command.
- Simultaneously press the SHIFT and the Backspace key (key 5) to move the cursor to the left of the GOTO command; this generates the K cursor.
- Enter, in turn, the **PRINT** command, the **CODE** command, and the first set of quotes:

PRINT CODE "GOTO

4. Advance the cursor to the right of the **GOTO** command by simultaneously pressing the **SHIFT** and the Advance key (key 8); then enter the second set of quotes:

PRINT CODE "GOTO"

Press the **ENTER** key to run the command.

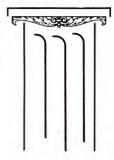
Tricky, wasn't it? But, don't worry, I'll accept your token of thanks.



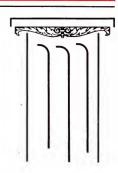
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JE FORUM



OOPS

The Letters to the Editor column in Issue #4 contained three printing errors:

Robert Caufman's **REM** suggestion should have been printed as follows:

FROM 410 LET L\$(N) = S\$ (TO 29) 415 GOTO 500

TO:

410 REM LET L\$(N) = S\$ (TO 29) 411 LET L\$(N) - S\$ (TO 23) 411 LET L\$(N) -415 GOTO 500

And David Farmer's rounding-off correction for the Checkbook Manager was printed in the wrong position. The statement is:

2391 LET BA = INT (BA*100 + .1)/100 In the Bobsled Program, lines 70 and 75 should read:

Do not **RUN** to execute the program; instead enter the command GOTO 1000

We apologize for any inconvenience resulting from these errors.

LETTERS TO THE EDITOR

"BUG" COLLECTOR

Meade Frierson III maintains a collection of "bugs" and other programming problems (and the appropriate solutions) on 31/2" x5" index cards. So, when a "bug" raises its ugly head, this Birmingham, Alabama, resident flips through the cards and frequently finds the appropriate "anti-bug" solution.

SOUNDING OFF ON ROUNDING OFF

All you need to do is incorporate the following one-line statement into your program to reduce large numbers into a much more manageable figure, says

T/S user Joe Matherly of Coral Springs, Florida

LET Z = INT (Z * .10 * *X) + .5) * (10 * * -X)

As illustrated by the programs below, X represents the variable in your program and Y is the number of places after the decimal point.

UNROUNDED

LET X = 25 LET Y = 3,8 LET Z = X/Y 20 40 PRINT AT 10,5;Z

= 6.5789474

ROUNDED

10 20 LET X = 25 LET Y = 3.8 LET Z = X/Y 30 40 LET Z = INT (Z*(10**2) + .5)*(1(7) × 50 PRINT AT 10.5:Z = 6.58

THE PROFESSIONAL TOUCH

Here's a tip that comes to us from Dick Sieg's Cleveland, Ohio, Timex/Sinclair User Group announcement:

The **PAUSE 4E4** command can be used to stop a program when this command is encountered. Then, when you press any key. the program resumes from the point of interruption.

PROGRAMMING CAN BE FUN

You can duplicate the following programs on your TIMEX Personal Computer to find out just how much fun programming can be. We are indebted to the T/S users identified by the first program REM for submitting the programs to RAMBLINGS.

MUSICAL COMPUTER

One of the least publicized — but potentially most enjoyable — capabilities of the TIMEX Personal Computer is the ability to produce music. As demonstrated by the program below, a series of endless FOR/ **NEXT** loops (five in this program) of varying duration simulate the different notes of a musical scale.

To play this composition, place a portable AM radio next to the TV jack of your computer. Tune the radio to an open frequency for the best sound reproduction. Now,

RUN to execute the program and **BREAK** to stop it.

REM BY JULIE KNOTT AND DAVE PROCHNOW, BELLEVUE, NE. 5 FOR A = 1 TO 5
FOR B = 1 TO 25
GOSUB 190
NEXT B 20

40 FOR C = 1 TO 50 GOSUB 190 60 **NEXT C**

80 FOR D = 1 TO 75 GOSUB 190 90 NEXT D

FOR E = 1 TO 50 GOSUB 190 120 NEXTE 140 FORF = 1 TO 100 GOSUB 190 NEXT 170 180 NFXT A GOTO 10 190 SLOW 200 210 FAST RETURN

Altering the tone duration is accomplished by changing the upper limit of the FOR/ **NEXT** statement; tone color is modified by adding different keywords in Statement 195 (try CLS, SCROLL, RUN and GOTO).

WHIZ KIDS

Most youngsters (and many adults) are particularly attracted to moving graphics. So, one of our T/S "whiz kids" has contributed this "Electronic Crayon" program which lets you draw pictures on your T/S 1000 Personal Computer. RUN to execute the program, BREAK to stop, press the C key to clear the screen to start a new drawing, and use the Arrow keys (5,6,7,8) to produce your "T/S masterpiece."

REM BY MICHAEL BOUCHER
REM ELECTRONIC CRAYON
PRINT "USE THE ARROW KEYS T
VANY —" O DRAW ANY PRINT "THING YOU WANT. USE THE CKEY PRINT "TO CLEAR THE SCREEN AND START PRINT "OVER."

20 PAUSE 100 PAUSE 100 CLS LET A = 30 LET B = 10 PLOT A,B IF INKEY\$ = "5" THEN GOTO 130 IF INKEY\$ = "6" THEN GOTO 150 IF INKEY\$ = "7" THEN GOTO 170 IF INKEY\$ = "8" THEN GOTO 190 IF INKEY\$ = "C" THEN GOTO 30 GOTO 60 30 90 100 110 GOTO 60 130 LET A = A-1 GOTO 60 140 150 LET B = B - 1160 **GOTO 60**

LET B = B + 1 GOTO 60 170 180 200 GOTO 60



COMPUTER VOCABULARY

Computer terminology is a specialized and unique language. To the first-time or uninitiated computer owner, this "jargon" can be misleading or confusing.

Each issue, we'll list some of the common (and not so common) computer terms. These highly simplified definitions will help you better understand your computer and its "lingo." Spend a few minutes to learn these terms, and you'll soon be talking like a computer professional.

Bit — Smallest unit of computer information. Eight-bits are required to comprise one-byte. A bit is a binary digit which represents 0 or 1 — providing the computer with a YES/NO (or ON/OFF) alternative.

Byte — The smallest addressable unit in the system, a byte is composed of eightbinary digits (bits) which are taken as a unit. A computer is usually classified by the number of bytes it can store (i.e., a 16K computer stores 16,384 bytes).

Character — A letter, digit, or symbol that represents data. A character and a byte are roughly synonymous.

Command — An instruction to the computer.

EDP — This acronym stands for Electronic Data Processing. And, because a computer is capable of processing large amounts of data at a high rate of speed, the computer is typically considered to be an EDP system.

Keyboard — Hardware unit on the computer (may be separate unit on modular computer system) which is utilized by the operator to type input to the computer. There are different types of keyboards (e.g., the TIMEX 1000 contains a 40-key membrane-type keyboard; the TIMEX 1500 keyboard is equipped with 40-typewriterstyle, movable keys).

List — Command to the T/S Personal Computer to display the program in memory on the TV screen. The number of program lines displayed is limited by the physical capacity of the TV screen (i.e., displays the first 22-lines). Program lines not shown because of the screen size limitation can be displayed by a **LIST** command and

the appropriate line number (i.e., **LIST** 2000).

Print — Execution of this program command causes the TIMEX Personal Computer to produce a TV screen display of that data input from the keyboard.

RAM Expansion Module — It is used to expand the storage capacity of the computer. The TIMEX RAM Expansion Module, for example, increases the storage capacity by 16K (i.e., to 32,768 characters in the T/S 1500).

Run — Command which tells the computer to execute the program.

Statement — Program line consisting of a line or sequence number (i.e. 10) a command (i.e. *LET*) and the instructions that define the parameters of the instructions (i.e., *LET* | = 5): 10 *LET* | = 5.



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